

Serial No. 10/662,081

Amendment dated June 23, 2005

Reply to Office Action of March 24, 2005

Amendments to the Specification:

Please replace the title with the following title:

METHOD OF MANUFACTURING ELECTROCHEMICAL SENSORS

Please replace the Abstract with the following rewritten Abstract:

~~A sensor utilizing a non-leachable or diffusible redox mediator is described. Methods for manufacturing electrochemical sensors are described. The sensors have a working electrode and a counter electrode, which are planar, and optionally an indicator electrode. The sensor includes a sample chamber to hold a sample of no more than 1 μ L in electrolytic contact with [[a]] the working electrode, and in at least some instances, the sensor also contains a non-leachable or a diffusible second electron transfer agent. The sensor and/or the methods used produce a sensor signal in response to the analyte that can be distinguished from a background signal caused by the mediator. The invention methods provide sensors that can be used to determine the concentration of a biomolecule, such as glucose or lactate, in a biological fluid, such as blood or serum, using techniques such as coulometry, amperometry, and potentiometry. An enzyme capable of catalyzing the electrooxidation or electroreduction of the biomolecule is typically provided as a second electron transfer agent.~~